# (19) World Intellectual Property Organization

International Bureau



### I CONTO CHIMATOR IN CONTO RICHI CONTO CHIMA CARDI CHIMATO IN CONTO CONTO CONTO CONTO CONTO CONTO CONTO CONTO C

(43) International Publication Date 17 February 2005 (17.02.2005)

**PCT** 

## (10) International Publication Number WO 2005/013974 A1

- (51) International Patent Classification<sup>7</sup>: A61K 31/404, C07D 209/40, A61P 3/04, 25/00, C07D 401/04
- (21) International Application Number:

PCT/EP2004/008516

- (22) International Filing Date: 29 July 2004 (29.07.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

P 200301806

30 July 2003 (30.07.2003) ES

- (71) Applicant (for all designated States except US): LABO-RATORIOS DEL DR. ESTEVE S.A. [ES/ES]; Av. Mare de Déu de Montserrat, 221, E-08041 Barcelona (ES).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MERCE VI-DAL, Ramon [ES/ES]; C/Casanova 264 4° 1a, E-08021 Barcelona (ES). CODONY SOLER, Xavier [ES/ES]; C/Lepanto 71-77 2° 1a, E-08301 Mataro (ES). DORDAL ZUERAS, Alberto [ES/ES]; C/Maladeta, 26 3° 3a, E-08016 Barcelona (ES).

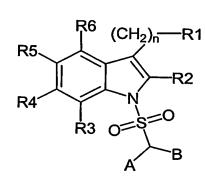
- (74) Agent: DAVILA BAZ, A.; Clarke, Modet & Co., C/Goya, 11, E-28001 Madrid (ES).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### (54) Title: 1-SULFONYLINDOLE DERIVATIVES, THEIR PREPARATION AND THEIR USE AS 5-HT6 LIGANDS



(la, lb, lc),

(57) Abstract: The present invention refers to new sulfonamide derivatives, of general formula (la, lb, 1c), (I), (I a, I b, I c), optionally in form of one of their stereoisomers, preferably enantiomers or diastereomers, their racemate, or in form of a mixture of at least two of their stereoisomers, preferably enantiomers or diastereomers, in any mixing ratio, or their salts, preferably their corresponding physiologically acceptable salts or corresponding solvates; to the processes for their preparation, to their application as medicaments in human and/or veterinary therapeutics, and to the pharmaceutical compositions containing them. The new compounds of the present invention can be used in the pharmaceutical industry as intermediates and for preparing medicaments.